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flowers and foliage plants

**Production and Sales, 1970 and 1971
Intentions for 1972**

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DEFINITIONS

The estimates in this report relate to sales by commercial producers. A commercial producer is defined as one who produces and sells \$2,000 or more of cut flowers, nursery products, bulbs, seeds and bedding, vegetable, flowering, and foliage plants in one year. Only commercial producers growing any of the four cut flowers--carnations, chrysanthemums, gladioli, or roses--potted chrysanthemums or foliage plants are included in this report. All value data, except for foliage plants, are on a "gross wholesale" basis and deductions have not been made for selling commissions and transportation costs. Total sales, except for foliage plants, in each State are converted to their equivalent wholesale value using the reported average wholesale prices. Foliage plant sales are on a "net sales" basis and are derived in each State by subtracting the cost of plant materials purchased from other growers from the gross value of sales. Sales times average price does not necessarily equal the published wholesale value, since the published average price and percent change for intentions are derived from unrounded totals.

This report includes revised estimates for 1970 and preliminary estimates for 1971.

FLOWERS AND FOLIAGE PLANTS

Production and Sales, 1970 and 1971; and Intentions for 1972 in Selected States

Total value at wholesale of four important flower and foliage plants in the 23 major producing States was \$241 million in 1971, 7 percent above the previous year, according to the Crop Reporting Board. Sales of cut carnations, gladioli, roses, chrysanthemums, and potted chrysanthemums grown in 23 States in 1971 had a wholesale value of \$204 million, while net sales of foliage plants totaled \$37.6 million.

California continued as the leading producer of carnations, standard chrysanthemums, potted chrysanthemums, and roses. Florida was the leading producer of pompon chrysanthemums, gladioli, and foliage plants. Based on total wholesale value of the four cut flowers and potted chrysanthemums, California ranks first with \$66.0 million, followed by Florida with \$26.0 million and Colorado with \$16.9 million. Based on the net wholesale value of sales for foliage plants, Florida leads with \$23.1 million, followed by California with \$4.6 million and Texas with \$1.8 million.

Growers with value of sales over \$100,000 for all greenhouse and nursery products grown account for 60 to 92 percent of the total quantity of each commodity sold in 1971, while the percentage of growers in this size group ranges from 14 to 63 percent. Of the growers in the survey universe, 21 percent have value of sales for all greenhouse and nursery products grown of over \$100,000, while 20 percent have total value of sales of less than \$10,000. For additional percentage breakdown by size groups, see Table 13.

CARNATIONS

Growers plan a 6 percent increase in the number of carnation plants in production in 1972. Of the 23 States in the survey, growers in 18 States intend to have fewer plants in production in 1972. In California, the leading producing State, producers expect to have 5 percent more while Colorado growers intend to have 23 percent more plants producing in 1972. Growers in the third largest producing State, Pennsylvania, expect to reduce plantings 1 percent.

In 1971, growers in the 23 States sold 674 million blooms from 58.1 million plants. Number of blooms sold was 5 percent fewer than the previous year. California producers sold 380 million blooms which accounts for over one-half of the 23 State total. Colorado growers, with nearly one-fourth of the total bloom sales, was second with 161 million blooms. These two States accounted for 80 percent of the total carnations sold in the 23 States. Pennsylvania growers sold 26 million blooms and Massachusetts growers 25 million, ranking third and fourth, respectively. Total wholesale value of 1971 sales in the 23 States was \$46.3 million. The average price of 6.9 cents per bloom in 1971 was up slightly from the 6.7 cents in the previous year.

Standard carnations accounted for about 87 percent of all carnation sales in the 23 States. Total wholesale value of standard types in 1971 amounted to \$43.7 million. The average price of 7.4 cents per bloom in 1971 was slightly above the previous year average of 7.3 cents per bloom. Growers in the 23 States plan to increase production by 6 percent in 1972.

Miniature carnations made up about 13 percent of the total carnations in 1971. Value of sales, at \$2.6 million, was up from last year's \$2.5 million. Average price per bunch in 1971 was \$1.13, compared with \$1.00 per bunch in 1970. Growers plan to increase production by 3 percent in 1972.

STANDARD CHRYSANTHEMUMS

Standard chrysanthemum producers in the 23 States are expected to have 3 percent more plants in production in 1972. The greatest gain is expected in Massachusetts where the number of plants is expected to increase from 3.0 million to 3.4 million. In all, 12 States show an increase and 7 States a decrease. Growers in California, the leading producing State, indicate an increase of 5 percent.

In 1971, growers in the 23 major States sold 145 million blooms from 129 million plants. The number of blooms sold was 2 percent below 1970. California was first in sales with 80.5 million blooms, or 56 percent of the total, followed by Ohio with 9.3 million blooms; Florida, 9.2 million; and Pennsylvania with 7.7 million. These four States accounted for about 74 percent of the total 1971 sales in 23 States.

POMPON CHRYSANTHEMUMS

Growers in the 23 States indicated a slight increase in the number of pompon plants expected in production for 1972. Nine of the 23 States indicated an increase for 1972 while 10 States indicated a decrease.

Sales in 1971 in the 23 States were 6 percent above the previous year and totaled 34.5 million bunches from 136 million plants. California leads in production with 12.6 million bunches sold or 37 percent of the 23 State total. Florida was second with 11.9 million bunches (34 percent); and Pennsylvania third with 2.2 million bunches (6 percent). These 3 States accounted for over three-fourths of total sales in 1971. Of the 34.5 million bunches sold, 93 percent were sold at wholesale.

The value of sales for 23 States was \$29.3 million, up 10 percent from 1970. The average price per bunch increased from 82 cents in 1970 to 85 cents in 1971.

GLADIOLI

Gladioli growers in the 23 States intend to plant 2 percent less acreage in 1972. Decreases are expected in 10 of the producing States. Increases are expected in 2 States.

In 1971, growers sold 23.5 million dozen spikes from 10,631 acres, compared with 23.4 million dozen spikes sold from 11,595 acres a year earlier. Florida was the leading producer with 6,661 acres in production and 15.0 million dozen spikes sold. Sales in Florida account for 64 percent of the 23 State total. California sales were second with 3.1 million dozen spikes, followed by New Jersey with 1.8 million dozen, and North Carolina with 1.5 million dozen sold. Wholesale sales made up 99 percent of total sales, 1 percent more than the previous year. The total value at wholesale in 1971 was \$19.0 million for the 23 States, and the average price per dozen spikes was 81 cents. A year earlier, the wholesale value of sales was \$18.7 million at an average price per dozen of 80 cents.

ROSES

Rose growers in 23 States plan to grow 1 percent more plants in 1972 than in 1971. Growers in 8 States plan increases while 8 States indicated decreases and 7 States indicated no change.

In 1971, there were 429 million blooms sold in the 23 States, 2 percent less than in 1970. California growers sold 168 million blooms, 39 percent of the 23 State total. Pennsylvania was second with 44.0 million blooms. Indiana ranked third with 26.2 million and New York fourth with 26.1 million.

The value of sales for roses in 1971 was \$54.7 million, 1 percent more than a year earlier. The average price in 1971 of 12.7 cents per bloom compared with 12.3 cents the previous year.

In 1972, growers plan a 2 percent increase in hybrid tea rose plants and 2 percent decrease in miniature or sweetheart rose plants.

Hybrid tea roses accounted for 81 percent of all rose plants and 80 percent of the total value of sales of all roses in 1971. The average price for hybrid tea roses was 14.1 cents per bloom and for miniatures was 9.3 cents per bloom.

POTTED CHRYSANTHEMUMS

Growers of potted chrysanthemums intend to increase the number of pots in production by 8 percent in 1972. Seventeen States expect to increase the number of pots, with largest gains expected in Wisconsin, Maryland, Tennessee, Colorado and California.

In 1971, 17.5 million pots were sold, 9 percent more than during 1970. Total wholesale value of sales in 1971 was \$26.8 million, up from \$24.5 million a year earlier. Average wholesale price per pot was \$1.53 compared with \$1.52 the previous year. California was the leading producer with 3.9 million potted chrysanthemums sold, followed by Florida, Texas and Ohio.

FOLIAGE PLANTS

Foliage plant growers in 23 States had 38.8 million square feet in production in 1971, up 19 percent from 1970. Florida was the leading producer of foliage plants with 31.8 million square feet in production or 82 percent of the total for the 23 States. California was second with 3.0 million square feet and Texas third with 1.6 million. These 3 States accounted for 94 percent of the total area in foliage plant production and 79 percent of the total net value of sales. Intended area in production for the 23 States in 1972 is expected to be about 4 percent more than in 1971.

The net value of sales totaled \$37.6 million -- up 36 percent from a year earlier.

Table 1. Carnations, Chrysanthemums, Gladioli, Roses, and Foliage Plants:
Gross wholesale value of sales, 1970 and 1971, in selected States

State	Gross wholesale value of sales 1/ 1,000 dollars													
	Carnations				Chrysanthemums				Gladioli				Roses	
	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971
Massachusetts	2,316	1,779	871	798	814	574	545	629	68	49	3,227	3,185	7,841	7,014
Connecticut	779	691	458	493	602	583	522	486	8	7	2,733	2,070	5,102	4,330
New York:														
Upstate	390	283	815	911	932	918	708	671	104	28	2,350	2,228	5,299	5,039
Long Island	605	342	460	460	613	615	352	365	13	3	1,998	1,642	4,041	3,427
New Jersey	1,014	752	492	546	492	516	512	617	1,250	1,212	1,736	1,436	5,496	5,079
Pennsylvania	2,782	2,397	1,824	1,677	1,910	1,766	1,059	1,401	97	97	6,848	6,305	14,520	13,643
Ohio	1,424	1,475	2,610	2,634	1,451	1,232	1,889	1,833	105	85	1,897	2,101	9,376	9,360
Indiana	320	348	1,165	1,211	409	359	567	744	96	119	4,719	4,892	7,276	7,673
Illinois	461	439	938	822	727	661	1,265	1,305	538	533	3,779	3,364	7,708	7,124
Michigan	196	167	335	357	322	358	1,074	1,223	345	406	2,137	2,228	4,409	4,739
Wisconsin	204	169	310	197	266	275	655	765	20	*	436	497	1,891	1,903
Minnesota	169	132	230	261	505	590	715	698	39	47	1,121	973	2,779	2,701
Iowa	109	106	133	184	144	129	855	830	71	71	430	410	1,742	1,730
Missouri	385	315	745	758	260	215	886	940	6	*	599	557	2,881	2,785
Delaware	3/	3/	17	26	37	35	21	10	3/	3/	4/	4/	75	71
Maryland	260	174	563	556	289	299	413	524	124	126	271	249	1,920	1,928
North Carolina	960	687	1,312	1,391	860	821	1,391	1,209	1,331	1,128	432	383	6,286	5,619
Florida	*	*	1,863	1,780	8,706	10,090	2,454	2,372	11,277	11,767	284	*	24,584	26,009
Tennessee	190	194	452	427	19	12	668	792	4/	4/	*	*	1,329	1,425
Texas	*	*	341	280	71	83	2,192	2,350	*	*	*	*	2,604	2,713
Colorado	12,851	13,705	136	95	198	166	411	506	*	*	1,733	2,471	15,329	16,943
Washington	34	36	191	255	268	334	662	831	38	21	1,030	1,063	2,223	2,540
Oregon	129	94	74	58	155	111	585	574	*	*	1,731	1,852	2,674	2,689
California	21,895	21,789	10,590	11,353	6,601	8,510	4,124	5,128	3,111	3,216	14,113	16,022	60,434	66,018
Unallocated	213	270	---	---	---	---	---	---	84	89	443	738	740	1,097
23 States	47,686	46,344	26,925	27,530	26,651	29,252	24,525	26,803	18,725	19,004	54,047	54,666	198,559	203,599

* Unallocated to avoid disclosure of individual operations.

1/ Equivalent wholesale value of all sales.

2/ Net value of sales.

3/ Delaware combined with Maryland to avoid disclosure of individual operations.

4/ Production negligible.

Table 2. Carnations, All: Number of producers, plants in production, sales, price, wholesale value, 1970 and 1971, and indicated plants in production, 1972, in selected States

State	Producers			Plant in production			: Blooms sold 1/			Percent of : sales at : wholesales			: Wholesale : price			: Value of : sales at : wholesales 2/		
	: 1970 : 1971 : 1972			: 1970 : 1971 : 1972			: 1970 : 1971 : 1972			: 1970 : 1971 : 1972			: 1970 : 1971 : 1972			: 1970 : 1971 : 1972		
	Number	1,000 plants	Percent	Number	1,000 plants	Percent	1,000 blooms	Cents	1,000 dollars	Percent	Cents	1,000 dollars	Percent	Cents	1,000 dollars	Percent	Cents	1,000 dollars
Massachusetts	93	74	3,646	2,830	2,582	91	32,687	25,170	96	96	7.1	2,316	1,779	7.1	2,316	1,779	7.1	2,316
Connecticut	62	53	822	760	675	89	11,019	9,754	86	79	7.1	779	691	7.1	779	691	7.1	779
New York:																		
Upstate	121	110	431	381	341	90	5,348	3,036	62	49	7.3	390	283	9.3	390	283	9.3	390
Long Island	46	29	909	497	509	102	10,287	4,803	85	86	5.9	605	342	7.1	605	342	7.1	605
New Jersey	98	85	1,124	954	877	92	11,629	8,816	70	77	8.7	1,014	752	8.5	1,014	752	8.5	1,014
Pennsylvania	218	189	3,638	2,989	2,949	99	31,322	26,224	83	85	8.9	2,782	2,397	9.1	2,782	2,397	9.1	2,782
Ohio	170	165	1,723	1,598	1,500	94	16,431	17,844	75	82	8.7	1,424	1,475	8.3	1,424	1,475	8.3	1,424
Indiana	57	52	504	421	412	98	2,782	2,882	77	81	11.5	320	348	12.1	320	348	12.1	320
Illinois	72	57	729	541	518	96	6,235	5,772	82	81	7.4	461	439	7.5	461	439	7.5	461
Michigan	50	37	191	179	161	90	1,706	1,642	60	49	11.5	196	167	10.2	196	167	10.2	196
Wisconsin	73	68	412	337	212	63	2,206	2,023	63	65	9.2	204	169	8.4	204	169	8.4	204
Minnesota	49	39	160	125	113	90	1,356	1,183	51	57	12.5	169	132	11.2	169	132	11.2	169
Iowa	34	34	86	78	58	74	887	664	13	39	12.3	109	106	16.0	109	106	16.0	109
Missouri	42	31	706	632	432	68	3,932	3,188	84	80	9.7	385	315	7.1	385	315	7.1	385
Delaware 3/																		
Maryland 3/	30	26	451	304	274	90	2,985	2,260	67	49	8.7	260	174	7.7	260	174	7.7	260
North Carolina	26	22	975	818	790	97	9,443	7,021	94	92	10.2	960	687	9.8	960	687	9.8	960
Florida	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tennessee	9	7	362	360	360	100	2,502	2,181	86	87	7.6	190	194	8.9	190	194	8.9	190
Texas	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Colorado	168	162	13,464	12,933	15,937	123	162,766	161,374	99	99	7.9	12,851	13,705	8.5	12,851	13,705	8.5	12,851
Washington	20	19	69	43	39	91	346	352	46	43	10.1	34	36	10.2	34	36	10.2	34
Oregon	12	13	168	144	147	102	1,111	954	63	83	11.6	129	94	9.9	129	94	9.9	129
California	295	272	30,656	30,644	32,046	105	382,723	379,604	100	100	5.7	21,895	21,789	5.7	21,895	21,789	5.7	21,895
Unallocated	4	4	534	571	472	83	13,292	7,251	100	100	1.6	213	270	3.7	213	270	3.7	213
23 States	1,749	1,548	61,760	58,139	61,404	106	712,995	673,998	96	97	6.7	47,686	46,344	6.9	47,686	46,344	6.9	47,686

* Unallocated to avoid disclosure of individual operations.

1/ Miniature carnation bunch converted to 37 blooms for combining with standard carnations.

2/ Equivalent wholesale value of all sales.

3/ Delaware combined with Maryland to avoid disclosure of individual operations.

Table 3. Carnations, Standard: Number of producers, plants in production, sales, price, wholesale value, 1970 and 1971, and indicated plants in production, 1972, in selected States

State	Producer		Plants in production		Blossoms sold		Percent of sales at		Wholesale price:		Value of sales at	
	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971
	Number		1,000 plants		1,000 blossoms		Percent		Cents		1,000 dollars	
Massachusetts	90	71	3,337	2,572	2,337	91	23,289	17,067	96	8.7	9.0	2,026
Connecticut	57	48	616	622	556	89	5,173	4,833	74	10.6	10.2	548
New York:												
Upstate	115	109	381	356	310	87	3,239	2,111	64	10.4	11.9	337
Long Island	41	27	827	456	465	102	7,438	3,582	85	7.1	8.4	528
New Jersey	95	82	989	842	767	91	8,447	6,115	73	10.7	10.7	904
Pennsylvania												
Ohio	216	188	3,519	2,891	2,840	98	26,105	23,264	86	9.9	9.7	2,584
Indiana	169	164	1,678	1,551	1,442	93	14,507	16,179	82	9.3	8.7	1,349
Illinois	57	*	500	*	*	*	2,708	*	77	11.7	*	317
Michigan	71	56	710	506	483	95	5,717	4,551	82	7.6	8.6	434
	48	37	187	171	153	89	1,595	1,457	55	11.9	10.8	190
Wisconsin												
Minnesota	73	68	410	335	209	62	2,058	1,875	66	9.6	8.7	198
Iowa	48	38	155	119	104	87	1,171	1,035	58	13.5	12.2	158
Missouri	34	*	85	*	*	*	813	*	17	13.1	*	106
	*	31	*	579	406	70	*	2,596	*	11.1	*	288
Delaware 2/												
Maryland 2/	30	26	438	297	268	90	2,615	2,075	66	9.4	8.1	247
North Carolina:	*	*	*	*	*	*	*	*	*	*	*	*
Florida	*	*	*	*	*	*	*	*	*	*	*	*
Tennessee	9	7	362	360	360	100	2,502	2,181	86	7.6	8.9	190
Texas												
Colorado	*	*	*	*	*	*	*	*	*	*	*	*
Washington	168	162	13,140	12,541	15,479	123	152,221	146,722	99	8.2	9.0	12,482
Oregon	*	*	*	*	*	*	*	*	*	*	*	*
California	294	269	29,700	29,661	30,916	104	344,539	341,568	100	6.1	6.1	21,017
Unallocated	102	142	1,978	1,587	1,535	97	14,915	11,946	89	10.3	11.0	1,537
23 States	1,717	1,525	59,012	55,446	58,630	106	619,052	589,157	96	7.3	7.4	45,152
												43,742

* Unallocated to avoid disclosure of individual operations.

1/ Equivalent wholesale value of all sales.

2/ Delaware combined with Maryland to avoid disclosure of individual operations.

Table 4. Carnations, Miniature: Number of producers, plants in production, sales, price, wholesale value, 1970 and 1971, and indicated plants in production, 1972, in selected States

State	Producers			Plants in production			Bunches sold			Percent of sales at wholesale			Wholesale price			Value of sales at wholesale 1/		
	1970			1971			1972			1970			1971			1970		
	Number	1,000 plants	Percent	1,000 bunches	Percent	1,000 bunches	Percent	1,000 bunches	Percent	Dollars	1,000 dollars	Dollars	1,000 dollars	Dollars	1,000 dollars	Dollars	1,000 dollars	Dollars
Massachusetts	42	28	309	258	245	95	254	219	95	97	1.14	1.11	290	243				
Connecticut	34	26	206	138	119	86	158	133	91	92	1.46	1.49	231	198				
New York:																		
Upstate	44	36	50	25	31	124	57	25	59	42	.93	1.26	53	32				
Long Island	15	9	82	41	44	107	77	33	91	90	1.01	1.24	77	41				
New Jersey	36	27	135	112	110	98	86	73	77	85	1.27	1.34	110	98				
Pennsylvania	56	47	119	98	109	112	141	80	53	74	1.40	1.74	198	140				
Ohio	25	25	45	47	58	123	52	45	76	88	1.45	1.51	75	67				
Indiana	6	*	4	*	*	*	2	*	75	*	1.42	*	3	*				
Illinois	15	21	19	35	35	100	14	33	77	86	1.93	1.44	27	48				
Michigan	10	8	4	8	8	100	3	5	12	26	1.75	1.85	6	10				
Wisconsin	11	13	2	2	3	111	4	4	-	25	1.50	1.50	6	6				
Minnesota	15	9	5	6	9	165	5	4	40	29	2.00	1.50	11	6				
Iowa	6	*	1	*	*	*	2	*	-	*	1.50	*	3	*				
Missouri	*	4	*	53	26	49	*	16	*	69	*	1.68	*	27				
Delaware 2/																		
Maryland 2/	8	5	13	7	6	86	10	5	73	54	1.28	1.18	13	6				
North Carolina	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
Florida	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
Tennessee 3/																		
Texas 3/																		
Colorado	39	43	324	392	458	117	285	396	97	98	1.30	1.26	369	500				
Washington	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
Oregon	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
California	68	55	956	983	1,130	115	1,032	1,028	100	100	.85	.93	878	953				
Unallocated	13	22	474	488	383	78	357	194	99	97	.52	1.17	184	227				
23 States	443	378	2,748	2,693	2,774	103	2,539	2,293	93	95	1.00	1.13	2,534	2,602				

* Unallocated to avoid disclosure of individual operations.

1/ Equivalent wholesale value for all sales.

2/ Delaware combined with Maryland to avoid disclosure of individual operations.

3/ Production negligible.

Table 5. Standard Chrysanthemums: Number of producers, plants in production, sales, price, wholesale value, 1970 and 1971, and indicated plants in production, 1972, in selected States

State	Producers		Plants in production			Blooms sold		Percent of		Wholesale price:		Value of sales	
			:					:		:		:	
	1970	1971	1970	1971	Intended: 1972 as	1970	1971	1970	1971	1970	1971	1970	1971
					percent of:								1/
					1971								
	Number		1,000 plants	Percent		1,000 blooms	Percent			Cents		1,000 dollars	
Massachusetts	117	108	2,702	2,965	3,374	4,127	3,167	95	91	21.1	25.2	871	798
Connecticut	70	66	1,446	1,376	1,373	1,389	1,565	87	79	33.0	31.5	458	493
New York:													
Upstate	209	204	2,576	2,493	2,610	3,135	3,045	74	72	26.0	29.9	815	911
Long Island	65	65	1,264	1,341	1,287	1,817	2,170	82	90	25.3	21.2	460	460
New Jersey	126	124	1,475	1,527	1,542	2,078	2,053	83	78	23.7	26.6	492	546
Pennsylvania	280	268	6,116	6,941	6,959	6,987	7,660	78	78	26.1	21.9	1,824	1,677
Ohio	256	260	9,177	9,160	8,772	10,118	9,306	79	78	25.8	28.3	2,610	2,634
Indiana	113	105	3,444	3,147	3,226	3,228	3,490	89	81	36.1	34.7	1,165	1,211
Illinois	114	111	3,410	2,774	3,131	3,361	2,723	82	85	27.9	30.2	938	822
Michigan	83	77	975	1,133	1,108	1,144	1,175	70	81	29.3	30.4	335	357
Wisconsin	108	97	1,037	764	720	1,177	880	69	62	26.3	22.4	310	197
Minnesota	91	82	752	672	677	806	728	57	56	28.5	35.8	230	261
Iowa	59	62	594	564	566	521	596	61	73	25.5	30.9	133	184
Missouri	63	55	3,209	3,157	3,052	3,055	3,160	86	83	24.4	24.0	745	758
Delaware	7	6	61	86	86	67	95	-	-	25.0	27.0	17	26
Maryland	47	42	1,902	1,842	1,821	2,109	2,052	78	79	26.7	27.1	563	556
North Carolina	54	50	4,445	4,613	4,660	6,130	6,784	95	83	21.4	20.5	1,312	1,391
Florida	32	25	8,841	8,606	8,791	9,270	9,175	99	100	20.1	19.4	1,863	1,780
Tennessee	19	19	1,866	1,698	1,808	2,091	1,788	95	90	21.6	23.9	452	427
Texas	21	18	1,529	1,403	1,413	1,490	1,256	99	99	22.9	22.3	341	280
Colorado	23	19	422	326	278	502	408	66	64	27.0	23.2	136	95
Washington	58	48	592	624	578	676	764	86	85	28.2	33.4	191	255
Oregon	22	23	223	180	187	257	207	85	78	28.8	27.9	74	58
California	206	200	72,160	71,130	74,457	81,465	80,518	100	100	13.0	14.1	10,590	11,353
23 States	2,243		130,218		132,476	147,000		94		18.3		26,925	
	2,134		128,522			144,765		93		19.0			27,530

1/ Equivalent wholesale value of all sales.

Table 6. Pompon Chrysanthemums: Number of producers, plants in production, sales, price, wholesale value, 1970 and 1971 and indicated plants in production, 1972, in selected States

State	Producers		Plants in production				Bunches sold		Percent of sales at		Wholesale price		Value of sales at wholesale	
	1970 : 1971		1970 : 1971		1972 : 1971		1970 : 1971		1970 : 1971		1970 : 1971		1970 : 1971	
	Number	1,000 plants	Percent	1972	Percent of 1972's	1971	1970	1971	Percent	Dollars	1,000 dollars	Dollars	1,000 dollars	
Massachusetts:	170	141	2,388	1,769	1,980	112	642	435	71	65	1.27	1.32	814	574
Connecticut :	85	78	1,754	1,619	1,614	100	451	416	65	65	1.34	1.40	602	583
New York:														
Upstate :	218	211	2,125	2,485	2,460	99	849	777	49	56	1.10	1.18	932	918
Long Island:	74	72	1,643	1,637	1,666	102	612	688	71	85	1.00	.89	613	615
New Jersey :	135	125	1,436	1,276	1,286	101	492	436	75	73	1.00	1.19	492	516
Pennsylvania :														
Ohio :	259	247	6,125	6,290	6,256	99	2,301	2,241	81	84	.83	.79	1,910	1,766
Indiana :	248	243	2,524	3,152	2,686	85	1,210	1,084	59	71	1.20	1.14	1,451	1,232
Illinois :	99	98	1,060	974	863	89	317	291	72	65	1.29	1.23	409	359
Illinois :	115	110	3,024	2,838	2,770	98	636	539	75	82	1.14	1.23	727	661
Michigan :	91	84	898	971	1,036	107	309	295	65	74	1.04	1.22	322	358
Wisconsin :														
Wisconsin :	117	110	1,031	879	877	100	225	215	52	42	1.19	1.28	266	275
Minnesota :	94	86	987	1,077	1,097	102	431	485	53	51	1.17	1.22	505	590
Iowa :	65	63	480	365	366	100	118	102	43	50	1.22	1.26	144	129
Missouri :	49	44	823	624	582	93	278	185	91	85	.94	1.16	260	215
Delaware :														
Delaware :	7	6	83	66	65	99	31	28	-	-	1.20	1.25	37	35
Maryland :	46	40	739	711	633	89	243	241	69	68	1.19	1.24	289	299
North Carolina :	39	36	2,953	3,147	3,233	103	925	869	98	98	.93	.95	860	821
Florida :	48	40	63,454	62,967	63,399	101	11,829	11,899	100	99	.74	.85	8,706	10,090
Tennessee :	12	8	65	36	36	100	18	11	46	100	1.03	1.13	19	12
Texas :														
Texas :	13	9	355	485	484	100	73	96	100	100	.97	.87	71	83
Colorado :	23	17	689	550	540	98	157	131	66	67	1.26	1.27	198	166
Washington :	64	54	1,700	839	850	101	214	263	89	93	1.25	1.27	268	334
Oregon :	32	30	507	480	424	88	114	93	81	75	1.35	1.19	155	111
California :	246	216	32,039	40,657	41,367	102	9,956	12,644	100	100	.66	.67	6,601	8,510
23 States :	2,349	2,168	128,882	135,894	136,570	100	32,431	34,464	91	93	.82	.85	26,651	29,252

1/ Equivalent wholesale value for all sales.

Table 7. Gladioli: Number of producers, acres in production, sales, price, wholesale value, 1970 and 1971 and indicated acres in production, 1972, in selected States

State	Producers		Acres in production		Dozen spikes		Percent of		Wholesale price:		Value of sales	
	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971
	Number		Acres		Percent	1,000 dozen	Percent		Dollars		1,000 dollars	
Massachusetts	17	67	71	67	94	64	46	82	1.05	1.07	68	49
Connecticut	6	8	13	13	100	7	5	56	1.12	1.28	8	7
New York:												
Upstate	38	45	21	21	100	106	23	52	.98	1.22	104	28
L. Island	8	20	3	3	100	13	2	67	1.04	1.13	13	3
New Jersey	36	747	695	689	99	2,070	1,816	98	.60	.67	1,250	1,212
Pennsylvania												
Ohio	37	57	64	46	72	99	110	85	.98	.89	97	97
Indiana	25	101	66	57	86	94	83	92	1.13	1.02	105	85
Illinois	12	133	107	92	86	146	141	74	.66	.85	96	119
Michigan	28	754	796	755	95	872	978	100	.62	.55	538	533
	22	355	355	355	100	460	479	99	.75	.85	345	406
Wisconsin	10	9	*	*	*	36	*	64	.57	*	20	*
Minnesota	18	87	86	81	94	62	50	85	.63	.94	39	47
Iowa	10	7	37	37	100	47	43	95	1.52	1.64	71	71
Missouri	4	1	*	*	*	8	*	37	.84	*	6	*
Delaware 2/												
Maryland 2/	8	41	48	47	98	139	145	88	.89	.87	124	126
North Carolina:	19	757	419	319	76	2,093	1,481	99	.64	.76	1,331	1,128
Florida	23	7,192	6,661	6,681	100	13,854	14,971	99	.81	.79	11,277	11,767
Tennessee 3/												
Texas	*	*	*	*	*	*	*	*	*	*	*	*
Colorado	*	*	*	*	*	*	*	*	*	*	*	*
Washington	10	31	26	30	118	18	11	40	2.16	1.95	38	21
Oregon	*	*	*	*	*	*	*	*	*	*	*	*
California	22	1,094	1,110	1,060	95	3,104	3,063	100	1.00	1.05	3,111	3,216
Unallocated	13	54	53	55	104	68	75	90	1.24	1.19	84	89
23 States	366	11,595	10,631	10,408	98	23,360	23,522	98	.80	.81	18,725	19,004

* Unallocated to avoid disclosure of individual operations.

1/ Equivalent wholesale value for all sales.

2/ Delaware combined with Maryland to avoid disclosure of individual operations.

3/ Production negligible.

Table 8. Roses, All: Number of producers, plants in production, sales, price, wholesale value, 1970 and 1971, and indicated plants in production, 1972, in selected States

State	Producers			Plants in production			Blossoms sold			Percent of sales at			Wholesale price:			Value of sales at		
	1970	1971	1972	1970	1971	1972	1970	1971	1972	1970	1971	1972	1970	1971	1972	1970	1971	1972
	Number			1,000 plants			Percent	1,000 blossoms		Percent			Cents			1,000 dollars		
Massachusetts	15	13		934	953	1,115	117	26,346	23,384	99	90	12.2	13.6			3,227	3,185	
Connecticut	12	5		876	627	517	82	22,368	15,027	96	100	12.2	13.8			2,733	2,070	
New York:																		
Upstate	18	15		619	645	643	100	14,107	13,789	92	99	16.7	16.2			2,350	2,228	
Long Island	14	11		563	449	428	95	14,217	12,295	100	100	14.1	11.3			1,998	1,642	
New Jersey	17	17		534	482	380	79	13,160	10,007	94	98	13.2	14.3			1,736	1,436	
Pennsylvania	35	33		1,790	1,906	1,928	101	41,996	44,006	98	96	16.3	14.3			6,848	6,305	
Ohio	22	23		620	645	674	104	13,373	11,906	93	96	14.2	17.6			1,897	2,101	
Indiana	20	18		1,229	1,184	1,185	100	28,132	26,223	96	97	16.8	18.7			4,719	4,892	
Illinois	21	17		1,422	949	1,028	108	29,851	21,926	93	92	12.7	15.3			3,779	3,364	
Michigan	22	22		619	621	620	100	11,178	11,937	96	97	19.1	18.7			2,137	2,228	
Wisconsin	13	9		118	124	124	100	2,528	2,727	96	96	17.2	18.2			436	497	
Minnesota	28	18		381	331	330	100	8,031	6,897	81	96	14.0	14.1			1,121	973	
Iowa	11	8		175	151	149	99	3,334	2,824	93	91	12.9	14.5			430	410	
Missouri	9	5		169	173	144	83	3,484	3,266	99	99	17.1	17.1			599	557	
Delaware 2/																		
Maryland	8	7		85	73	74	101	2,178	1,860	90	92	12.4	13.4			271	249	
North Carolina	11	11		126	120	118	98	3,028	2,553	85	88	14.3	15.0			432	383	
Florida	6	5		99	*	*	*	2,519	*	87	*	11.2	*			284	*	
Tennessee	*	*		*	*	*	*	*	*	*	*	*	*	*		*	*	
Texas	*	*		*	*	*	*	*	*	*	*	*	*	*		*	*	
Colorado	20	19		726	862	842	98	15,134	21,572	99	99	11.5	11.5			1,733	2,471	
Washington	10	8		328	350	345	99	7,518	8,164	100	100	13.7	13.0			1,030	1,063	
Oregon	4	5		566	500	500	100	16,862	15,872	70	82	10.3	11.7			1,731	1,852	
California	60	60		6,674	7,352	7,541	103	156,699	167,585	99	100	9.0	9.6			14,113	16,022	
Unallocated	8	9		244	370	381	103	2,822	4,995	89	83	15.7	14.6			443	738	
23 States	384	338		18,897	18,867	19,066	101	438,865	428,815	96	97	12.3	12.7			54,047	54,666	

* Unallocated to avoid disclosure of individual operations.

1/ Equivalent wholesale value for all sales.

2/ Production negligible.

Table 9. Roses, Hybrid Tea: Number of producers, plants in production, sales, price, wholesale value, 1970 and 1971, and indicated plants in production, 1972, in selected States

State	Producers		Plants in production				Blooms sold		Percent of sales at		Wholesale price:				Value of sales at	
	1970	1971	1970	1971	Intended : 1972 as : 1972 : of 1971:	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	
	Number		1,000 plants		Percent	1,000 blossoms		Percent		Cents		1,000 dollars				
Massachusetts	15	13	706	698	833	119	17,161	14,440	98	95	14.2	16.0	2,437	2,307		
Connecticut	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
New York:																
Upstate	17	14	495	512	511	100	9,697	9,270	91	99	18.5	17.9	1,794	1,659		
Long Island	14	11	444	311	290	93	9,226	6,991	100	100	16.9	16.2	1,559	1,133		
New Jersey	16	16	422	371	297	80	9,679	7,186	93	99	14.2	15.7	1,374	1,128		
Pennsylvania	33	33	1,408	1,548	1,577	102	28,468	31,531	98	96	18.4	16.0	5,238	5,045		
Ohio	22	21	525	546	577	106	10,443	9,245	94	95	14.6	19.3	1,525	1,784		
Indiana	20	*	1,013	*	*	*	18,369	*	95	*	19.9	*	3,655	*		
Illinois	21	17	1,032	722	797	110	18,694	14,472	94	91	15.2	18.3	2,842	2,648		
Michigan	20	18	459	471	470	100	7,613	7,715	96	97	21.1	22.7	1,606	1,751		
Wisconsin	13	9	92	100	100	100	1,457	1,863	93	95	20.1	20.1	292	374		
Minnesota	23	16	266	259	258	99	4,845	4,577	78	96	17.1	16.5	828	755		
Iowa	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Missouri	9	5	136	136	115	84	2,379	2,206	98	100	18.7	18.6	445	410		
Delaware 2/																
Maryland	8	6	69	59	59	100	1,534	1,280	88	89	13.4	14.9	206	191		
North Carolina	11	11	107	98	96	98	2,403	1,853	85	88	15.9	17.3	382	321		
Florida	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Tennessee	5	6	198	216	216	100	2,649	2,933	90	89	16.3	17.6	432	516		
Texas	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Colorado	18	17	556	672	661	98	10,312	14,479	99	99	12.6	12.9	1,299	1,868		
Washington	9	8	234	257	252	98	4,068	5,908	100	100	18.7	14.1	761	833		
Oregon	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
California	60	60	5,730	6,312	6,492	103	123,102	134,071	99	100	9.8	10.3	12,064	13,810		
Unallocated	33	42	1,190	1,977	1,920	97	26,614	38,421	85	93	12.4	18.2	3,291	6,978		
23 States	367	323	15,082	15,265	15,521	102	308,713	308,441	96	97	13.6	14.1	42,030	43,511		

* Unallocated to avoid disclosing individual operations.
1/ Equivalent wholesale value for all sales.
2/ Production negligible.

Table 10. Roses, Miniature or Sweetheart: Number of producers, plants in production, sales, price, wholesale value, 1970 and 1971, and indicated plants in production, 1972, in selected States

State	Producers			Plants in production			Blossoms sold			Percent of sales at wholesale			Wholesale price			Value of sales at wholesale 1/		
	1970	1971	:	1970	1971	:	Intended: 1972 as:	1970	1971	:	1970	1971	:	1970	1971	:	1970	1971
	Number			1,000 plants			Percent			1,000 blooms			Cents			1,000 dollars		
Massachusetts	12	9		228	255		282	111		9,185	8,944		76	8.6	9.8		790	878
Connecticut	*	*		*	*		*	*		*	*		*	*	*		*	*
New York:																		
Upstate	13	14		124	133		132	100		4,410	4,519		99	12.6	12.6		556	569
Long Island	12	9		119	138		138	100		4,991	5,304		99	8.8	9.6		439	509
New Jersey	14	14		112	111		83	75		3,481	2,821		96	10.4	10.9		362	308
Pennsylvania	30	30		382	358		351	98		13,528	12,475		99	11.9	10.1		1,610	1,260
Ohio	12	16		95	99		97	98		2,930	2,661		91	12.7	11.9		372	317
Indiana	13	*		216	*		*	*		9,763	*		98	10.9	*		1,064	*
Illinois	15	14		390	227		231	102		11,157	7,454		94	8.4	9.6		937	716
Michigan	16	17		160	150		150	100		3,565	4,222		99	14.9	11.3		531	477
Wisconsin	8	6		26	24		24	100		1,071	864		99	13.4	14.2		144	123
Minnesota	22	15		115	72		72	100		3,186	2,320		86	9.2	9.4		293	218
Iowa	*	*		*	*		*	*		*	*		*	*	*		*	*
Missouri	5	5		33	37		29	79		1,105	1,060		100	13.9	13.9		154	147
Delaware 2/																		
Maryland	6	5		16	14		15	107		644	580		95	10.1	10.0		65	58
North Carolina	6	6		19	22		22	100		625	700		86	8.0	8.8		50	62
Florida	*	*		*	*		*	*		*	*		*	*	*		*	*
Tennessee	*	*		*	*		*	*		*	*		*	*	*		*	*
Texas 2/																		
Colorado	17	17		170	190		181	95		4,822	7,093		99	9.0	8.5		434	603
Washington	7	6		94	93		93	100		3,450	2,256		100	7.8	10.2		269	230
Oregon	*	*		*	*		*	*		*	*		*	*	*		*	*
California	48	48		944	1,040		1,049	101		33,597	33,514		99	6.1	6.6		2,049	2,212
Unallocated	28	35		572	639		596	93		18,642	23,587		86	10.2	10.5		1,898	2,468
23 States	284	266		3,815	3,602		3,545	98		130,152	120,374		96	9.2	9.3		12,017	11,155

* Unallocated to avoid disclosure of individual operations.

1/ Equivalent wholesale value for all sales.

2/ Production negligible.

Table 11. Potted Chrysanthemums: Number of producers, plants in production, sales, price, wholesale value, 1970 and 1971, and indicated pots in production, 1972, in selected States

State	Producers		Pots in production				Pots sold		Percent of sales at		Wholesale price:		Value of sales at	
	1970 ; 1971 ;		1970 ; 1971 ;		Intended: 1972 as : 1972 : of 1971 :		1970 ; 1971 ;		1970 ; 1971 ;		1970 ; 1971 ;		1970 ; 1971 ;	
	Number	1,000 pots	Percent	1,000 pots	Percent	1,000 pots	Percent	Dollars	1,000 dollars	Dollars	1,000 dollars	Dollars	1,000 dollars	
Massachusetts	80	65	345	378	370	98	332	371	86	1.64	1.69	545	629	
Connecticut	42	39	276	251	258	103	270	248	94	1.93	1.96	522	486	
New York:														
Upstate	165	155	469	440	441	100	448	421	88	1.58	1.60	708	671	
L. Island	33	36	180	209	221	105	180	197	93	1.96	1.86	352	365	
New Jersey	83	80	287	444	442	99	284	435	95	1.80	1.42	512	617	
Pennsylvania	193	184	650	781	844	108	640	768	88	1.65	1.83	1,059	1,401	
Ohio	198	177	1,485	1,245	1,255	101	1,426	1,207	89	1.33	1.52	1,889	1,833	
Indiana	45	41	269	370	380	103	265	356	86	2.14	2.09	567	744	
Illinois	81	65	684	712	701	98	679	675	92	1.86	1.93	1,265	1,305	
Michigan	94	94	652	797	838	105	650	780	92	1.65	1.57	1,074	1,223	
Wisconsin	83	77	435	507	555	110	446	496	75	1.47	1.54	655	765	
Minnesota	78	68	438	444	417	94	416	422	68	1.72	1.66	715	698	
Iowa	58	53	452	501	502	100	442	491	89	1.93	1.69	855	830	
Missouri	44	37	708	623	675	108	610	609	86	1.45	1.54	886	940	
Delaware	5	5	15	9	9	100	15	8	73	1.38	1.27	21	10	
Maryland	30	28	257	286	313	110	256	278	93	1.61	1.88	413	524	
North Carolina	33	27	830	836	846	101	805	791	99	1.73	1.53	1,391	1,209	
Florida	14	11	2,521	2,163	2,350	109	2,040	2,122	100	1.20	1.12	2,454	2,372	
Tennessee	21	20	351	424	465	110	345	411	97	1.94	1.93	668	792	
Texas	52	35	1,444	1,429	1,543	108	1,447	1,374	98	1.52	1.71	2,192	2,350	
Colorado	24	23	250	318	351	110	246	304	91	1.67	1.65	411	506	
Washington	41	33	415	503	515	102	409	472	98	1.62	1.76	662	831	
Oregon	14	14	433	361	371	103	402	347	99	1.46	1.66	585	574	
California	32	27	3,128	3,999	4,742	119	3,064	3,921	100	1.35	1.31	4,124	5,128	
23 States	1,543	1,394	16,974	18,030	19,404	108	16,117	17,504	93	1.52	1.53	24,525	26,803	

1/ Equivalent wholesale value of all sales.

Table 12. Foliage Plants for Indoor or Patio Use: Number of producers, square feet in production, net value of sales, 1970 and 1971, and indicated area in production, 1972, in selected States

State	Producers			Square feet in production			Intended			1972 as			Net value of			Percent of sales		
	1970	1971	1972	1970	1971	1972	1970	1971	1972	1970	1971	1972	1970	1971	1972	1970	1971	1972
	Number			1,000 sq. ft.			Percent			1,000 dollars			Percent			at wholesale		
Massachusetts	22	32		121	175	190			108	529	643		99			99		
Connecticut	16	22		73	65	66			101	100	172		86			86		
New York:																		
Upstate	78	91		111	173	177			103	224	427		84			84		
Long Island	19	26		247	229	273			119	491	563		94			94		
New Jersey	40	41		150	251	268			107	384	844		93			93		
Pennsylvania	57	43		308	213	229			107	1,121	865		93			93		
Ohio	90	71		426	481	451			94	1,431	1,455		97			97		
Indiana	*	*		*	*	*			*	*	*		*			*		
Illinois	32	25		48	101	102			101	412	287		75			75		
Michigan	33	22		172	152	154			101	683	694		90			90		
Wisconsin	34	31		30	64	64			100	68	187		62			62		
Minnesota	52	39		41	43	43			101	179	191		21			21		
Iowa	25	18		9	20	20			100	42	63		68			68		
Missouri	26	17		34	58	58			100	42	60		48			48		
Delaware 2/																		
Maryland 2/	16	18		67	90	90			100	435	477		83			83		
North Carolina	23	*		15	*	*			*	38	*		42			42		
Florida	134	117		27,086	31,764	33,252			105	15,938	23,077		100			100		
Tennessee	15	11		30	25	27			109	125	111		93			93		
Texas	78	61		1,473	1,573	1,649			105	1,156	1,804		95			95		
Colorado	*	*		*	*	*			*	*	*		*			*		
Washington	29	31		131	111	95			86	163	223		96			96		
Oregon	7	10		80	91	91			100	98	158		100			100		
California	63	69		1,892	2,981	3,016			101	3,657	4,634		98			98		
Unallocated	38	40		80	102	105			103	376	651		95			95		
23 States	927	835		32,624	38,762	40,420			104	27,692	37,586		97			97		

* Unallocated to avoid disclosing individual operations.

1/ Gross value of sales less cost of plant material purchased from other growers for growing on.

2/ Delaware combined with Maryland to avoid disclosure of individual operations.

Table 13. Flowers and Foliage Plants: Percent of producers and quantity sold, by size group for each commodity by gross value of sales from all greenhouse and nursery products grown, 23 States, 1971

Commodity	Gross Value of Sales of All Greenhouse and Nursery Products Grown 1/											Number of Producers	Total Quantity sold by Commodity														
	Under \$10,000					\$10,000-\$24,999					\$25,000-\$49,999					\$50,000-\$99,999					\$100,000 and over						
	Producers: Sold		Quantity: Producers		Quantity: Sold		Producers: Sold		Quantity: Producers		Quantity: Sold			Producers: Sold		Quantity: Producers		Quantity: Sold		Producers: Sold		Quantity: Producers		Quantity: Sold			
	Percent													Number													
Standard Carnations	15	1	22	4	25	12	21	23	17	60		1,525	1,000 blooms	589,157													
Miniature Carnations	7	*	17	5	22	8	25	22	29	65		378	1,000 bunches	2,293													
Standard Chrysanthemums	21	2	25	5	21	12	18	23	15	58		2,134	1,000 blooms	144,765													
Pompon Chrysanthemums	23	2	26	4	21	7	16	13	14	74		2,168	1,000 bunches	34,464													
Gladioli	29	1	21	3	16	3	14	4	20	89		320	1,000 doz. spikes	23,522													
Hybrid Tea Roses	4	*	8	1	12	1	18	6	58	92		323	1,000 blooms	308,441													
Miniature Roses	4	1	6	1	9	1	18	5	63	92		266	1,000 blooms	120,374													
Potted Chrysanthemums	13	1	24	3	22	4	19	10	22	82		1,394	1,000 pots	17,504													
Foliage Plants	21	1	21	3	16	3	15	6	27	87		835	Sq. ft. in Production	1,000 sq. ft.													
All Commodities 2/	20	-	22	-	19	-	18	-	21	-		4,027		38,762													

* Less than 0.5 percent.

1/ Includes cut flowers, flowering and foliage plants, bedding plants, cultivated florist greens, nursery products, bulbs, flower seeds, vegetables grown under glass, cultivated mushrooms, and sod.

2/ All commercial producers that grow one or more of the selected commodities listed above.

**UNITED STATES DEPARTMENT OF AGRICULTURE
WASHINGTON, D. C. 20250**

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